

Substitute for form 1449/PTO

JAN 09 2006

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Complete If Known

| | |
|----------------------|-----------------|
| Application Number | 10/675,783 |
| Filing Date | 09/30/2003 |
| First Named Inventor | Levine et al. |
| Examiner Name | Unknown |
| Art Unit | 2182 |
| Attorney Docket No. | AUS920030486US1 |

| Examiner Initials | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------|--------------------------------|--|---|
| /JM/ AA | 4,034,353 | 07-1977 | Denny et al. | |
| /JM/ AB | 4,821,178 | 04-1989 | Levin et al. | |
| /JM/ AC | 5,151,981 | 09-1992 | Westcott et al. | |
| /JM/ AD | 5,581,482 | 12-1996 | Wiedenman et al. | |
| /JM/ AE | 5,594,864 | 01-1997 | Trauben | |
| /JM/ AF | 5,691,920 | 11-1997 | Levine et al. | |
| /JM/ AG | 5,758,168 | 05-1998 | Mealey et al. | |
| /JM/ AH | 6,480,966 | 11-2002 | Rawson, III | |
| /JM/ AI | 2003/0135720 | 07-2003 | DeWitt et al. | |
| /JM/ AJ | 5,926,640 | 07-1999 | Mason et al. | |
| /JM/ AK | 6,185,652 | 02-2001 | Shek et al. | |
| /JM/ AL | 4,145,735 | 03-1979 | Soga | |
| /JM/ AM | 5,548,762 | 08-1996 | Creedon et al. | |
| /JM/ AN | 4,794,472 | 12-1988 | Doyama | |
| /JM/ AO | 6,161,187 | 12-2000 | Mason et al. | |
| /JM/ AP | 3,707,725 | 12-1972 | Dellheim | |
| /JM/ AQ | 6,408,386 | 06-2002 | Hammond et al. | |
| /JM/ AR | 6,775,728 | 08-2004 | Zimmer et al. | |
| /JM/ AS | 6,757,771 | 06-2004 | Christie | |
| /JM/ AT | 6,148,321 | 11-2000 | Hammond | |
| /JM/ AU | 6,275,893 | 08-2001 | Bonola | |
| /JM/ AV | 4,825,359 | 04-1989 | Ohkami et al. | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
| | | | | |

NON PATENT LITERATURE

| | |
|------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| /JM/ AW | Mano, "Computer System Architecture", Prentice-Hall, Inc., 2 nd Ed., 1982, pp.434-443. |
| /JM/ AX | Inoue, "Digital mobile communication system designed for nationwide police activities - WIDE system", IEEExplore, October 1996, pp. 1-2. |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



BEST AVAILABLE COPY

PTO/SB/08-03

Approved for use through 07/31/2008. OMB 0651-0031

Approved for use through 07/31/2008. GMB 0631-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| Complete if Known | |
|----------------------|-----------------|
| Application Number | 10/675,783 |
| Filing Date | 09/30/2003 |
| First Named Inventor | Levine et al. |
| Examiner Name | Unknown |
| Art Unit | 2182 |
| Attorney Docket No. | AUS920030486US1 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
| | | | | |

NON-PATENT LITERATURE

| | |
|-------------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| | |
| | |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| Complete If Known | |
|----------------------|-----------------|
| Application Number | 10/675,783 |
| Filing Date | 09/30/2003 |
| First Named Inventor | Levine et al. |
| Examiner Name | Unknown |
| Art Unit | 2182 |
| Attorney Docket No. | AUS920030486US1 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
| | | | | |

NON-PATENT LITERATURE

| | |
|-------------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| /JM/ | AH TANENBAUM, "Structured Computer Organization", 1984, Prentice-Hall, Inc., 2 nd Edition, pp. 10-12. |
| /JM/ | AI TORRELLAS et al., "False Sharing and Spatial Locality in Multiprocessor Caches", June 1994, IEEE Transactions on Computers, Vol. 43, No. 6, pp. 651-663. |
| /JM/ | AJ ROTHMAN et al., "Analysis of Shared Memory Misses and Reference Patterns", 2000, IEEE, pp. 187-198. |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| Complete If Known | |
|----------------------|-----------------|
| Application Number | 10/675,783 |
| Filing Date | 09/30/2003 |
| First Named Inventor | Levine et al. |
| Examiner Name | Unknown |
| Art Unit | 2182 |
| Attorney Docket No. | AUS920030486US1 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
|------------------|-------------------------|--------------------------------|--|---|

NONPATENT LITERATURE

| | |
|-------------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| /JM/ AG | Wikipedia "JavaServer Pages" downloaded 1/24/06 http://en.wikipedia.org/wiki/JavaServer_Pages |
| /JM/ AH | "Hardware Cycle Based memory Residency", IBM, May 22, 2003, ip.com, IPCOM000012728D, pp. 1-2 |
| /JM/ AI | HYDE, "The Art of Assembly Language", 2001, Linux Edition, pp. 247-248, retrieved Mar. 1, 2005 from http://webster.cs.ucr.edu/AoA/Linux/PDFs/0_PDFIndexLinux.html |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

| | | Complete if Known | |
|--|--|----------------------|-----------------|
| | | Application Number | 10/675,783 |
| | | Filing Date | 09/30/2003 |
| | | First Named Inventor | Levine et al. |
| | | Examiner Name | Unknown |
| | | Art Unit | 2182 |
| | | Attorney Docket No. | AUS920030486US1 |

| Examiner Initials | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------|--------------------------------|--|---|
| /JM/ AA | 5051944 | 09-24-1991 | Fetterolf et al. | |
| /JM/ AB | 5142634 | 08-25-1992 | Fite et al. | |
| /JM/ AC | 5394529 | 02-28-1995 | Brown, III et al. | |
| /JM/ AD | 6233679 B1 | 05-15-2001 | Holmberg | |
| /JM/ AE | 5887159 | 03-23-1999 | Burrows | |
| /JM/ AF | 6662295 B2 | 12-09-2003 | Yamaura | |
| /JM/ AG | 5938760 | 08-17-1999 | Levine et al. | |
| /JM/ AH | 6189072 B1 | 02-13-2001 | Levine et al. | |
| /JM/ AI | 5276833 | 01-04-1994 | Auvinen et al. | |
| /JM/ AJ | 5287481 | 02-15-1994 | Lin | |
| /JM/ AK | 5537572 | 07-16-1996 | Michelsen et al. | |
| | | | | |
| | | | | |
| | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
| | | | | |

NONPATENT LITERATURE

| | |
|------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| /JM/ AL | JEONG et al., "Cost Sensitive Cache Replacement Algorithms", June 2002, Second Workshop on Caching, Coherence and Consistency, NY, pp. 1-14. |
| | |
| | |
| | |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



JUN 05 2006

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/(08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449-~~1~~20

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| Complete If Known | |
|----------------------|-----------------|
| Application Number | 10/675,783 |
| Filing Date | 09/30/2003 |
| First Named Inventor | Levine et al. |
| Examiner Name | Unknown |
| Art Unit | 2182 |
| Attorney Docket No. | AUS920030486US1 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
| | | | | |

NON-PATENT LITERATURE

| | |
|-------------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| | |
| | |
| | |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner: /Jason Mitchell/ **Date Considered:** 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paper

JUN 26 2006

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------|-------------------------|--------------------------------|--|---|
|------------------|-------------------------|--------------------------------|--|---|

NON-PATENT LITERATURE

| | |
|---------------------|---|
| Examiner Initial | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| | |
| | |
| | |

Examiner: /Jason Mitchell/

Date Considered: 05/09/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

| | | | | |
|---|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small> | Application Number | | 10675783 | |
| | Filing Date | | 2003-09-30 | |
| | First Named Inventor | | Levine et al. | |
| | Art Unit | | 2182 | |
| | Examiner Name | | Unknown | |
| | Attorney Docket Number | | AUS920030486US1 | |

| U.S.PATENTS | | | | | | Remove |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 6944720 | B2 | 2005-09-13 | Sperber et al. | |
| /JM/ | 2 | 7035996 | B2 | 2006-04-25 | Woodall et al. | |

If you wish to add additional U.S. Patent citation information please click the Add button.

| U.S.PATENT APPLICATION PUBLICATIONS | | | | | | Remove |
|-------------------------------------|---------|--------------------|------------------------|------------------|---|--|
| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 20040030870 | A1 | 2004-02-12 | Buser | |

If you wish to add additional U.S. Published Application citation information please click the Add button.

| FOREIGN PATENT DOCUMENTS | | | | | | Remove | | |
|--------------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T5 |
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

| | | |
|--|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| | | | |
|--------------------|---------|---|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T5 |
| | 1 | | <input type="checkbox"/> |

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
|--------------------|------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

| | | | | |
|---|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | | 10675783 | |
| | Filing Date | | 2003-09-30 | |
| | First Named Inventor | | Levine et al. | |
| | Art Unit | | 2182 | |
| | Examiner Name | | Unknown | |
| | Attorney Docket Number | | AUS920030486US1 | |

| U.S. PATENTS | | | | | | Remove |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 6973417 | B1 | 2005-12-06 | Maxwell et al. | |
| /JM/ | 2 | 6721875 | B1 | 2004-04-13 | McCormick et al. | |

If you wish to add additional U.S. Patent citation information please click the Add button.

| U.S. PATENT APPLICATION PUBLICATIONS | | | | | | Remove |
|--------------------------------------|---------|--------------------|------------------------|------------------|---|--|
| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| | 1 | | | | | |

If you wish to add additional U.S. Published Application citation information please click the Add button.

| FOREIGN PATENT DOCUMENTS | | | | | | Remove | | |
|--------------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|----------------|
| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
| | 1 | | | | | | | |

If you wish to add additional Foreign Patent Document citation information please click the Add button.

| NON-PATENT LITERATURE DOCUMENTS | | | | | | Remove |
|---------------------------------|--|--|--|--|--|--------|
|---------------------------------|--|--|--|--|--|--------|

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| | | | |
|--------------------|---------|---|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T5 |
| | 1 | | <input type="checkbox"/> |

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
|--------------------|------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

| | | | | | |
|---|--|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | | 10675783 | |
| | | Filing Date | | 2003-09-30 | |
| | | First Named Inventor | | Levine et al. | |
| | | Art Unit | | 2182 | |
| | | Examiner Name | | Unknown | |
| | | Attorney Docket Number | | AUS920030486US1 | |

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| /JM/ | 1 | 20020073406 | A1 | 2002-06-13 | Gove | |
| /JM/ | 2 | 20030066055 | A1 | 2003-04-03 | Spivey | |
| /JM/ | 3 | 20030131343 | A1 | 2002-07-10 | French et al. | |
| /JM/ | 4 | 20040268316 | A1 | 2004-12-30 | Fisher et al. | |

If you wish to add additional U.S. Published Application citation information please click the Add button

FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

| | | | |
|--------------------|---------|---|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T ⁵ |
| | 1 | | <input type="checkbox"/> |

If you wish to add additional non-patent literature document citation information please click the Add button

| | | | |
|---|------------------------|--|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small> | Application Number | | 10675783 |
| | Filing Date | | 2003-09-30 |
| | First Named Inventor | | Levine et al. |
| | Art Unit | | 2182 |
| | Examiner Name | | Unknown |
| | Attorney Docket Number | | AUS920030486US1 |

| U.S.PATENTS | | | | | | Remove |
|--|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 5966538 | | 1999-10-12 | Granston et al. | |
| /JM/ | 2 | 5940618 | | 1999-08-17 | Blandy et al. | |
| /JM/ | 3 | 6189142 | B1 | 2001-02-13 | Johnston et al. | |
| /JM/ | 4 | 5768500 | | 1998-06-16 | Agrawal et al. | |
| /JM/ | 5 | 6026235 | | 2000-02-15 | Shaughnessy | |
| /JM/ | 6 | 5950003 | | 1999-09-07 | Kaneshiro et al. | |
| /JM/ | 7 | 6594820 | B1 | 2003-07-15 | Ungar | |
| If you wish to add additional U.S. Patent citation information please click the Add button. Add | | | | | | |
| U.S.PATENT APPLICATION PUBLICATIONS | | | | | | Remove |

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

EXAMINER SIGNATURE

| | | | |
|--|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | |
| <small> ¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached. </small> | | | |

| | | | |
|--|------------------------|--|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small> | Application Number | | 10675783 |
| | Filing Date | | 2003-09-30 |
| | First Named Inventor | | Levine et al. |
| | Art Unit | | 2182 |
| | Examiner Name | | Unknown |
| | Attorney Docket Number | | AUS920030486US1 |

| U.S. PATENTS | | | | | | <input type="button" value="Remove"/> |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 5761103 | | 1998-06-02 | Oakland et al. | |
| /JM/ | 2 | 6549959 | B1 | 2003-04-13 | Yates et al. | |
| /JM/ | 3 | 6772322 | B1 | 2004-08-03 | Merchant et al. | |
| /JM/ | 4 | 5937437 | | 1999-08-10 | Roth et al. | |
| /JM/ | 5 | 6070009 | | 2000-05-30 | Dean et al. | |
| /JM/ | 6 | 6381679 | B1 | 2002-04-30 | Matsubara et al. | |
| /JM/ | 7 | 6687794 | B2 | 2004-02-03 | Malik | |
| /JM/ | 8 | 6539458 | B2 | 2003-03-25 | Holmberg | |

| | | | |
|---|--|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | 10675783 |
| | | Filing Date | 2003-09-30 |
| | | First Named Inventor | Levine et al. |
| | | Art Unit | 2182 |
| | | Examiner Name | Unknown |
| | | Attorney Docket Number | AUS920030486US1 |

| | | | | | | |
|------|----|---------|----|------------|----------------|--|
| /JM/ | 9 | 6973542 | B1 | 2005-12-06 | Schmuck et al. | |
| /JM/ | 10 | 6782454 | B1 | 2004-08-24 | Damron | |
| /JM/ | 11 | 5652858 | | 1997-06-29 | Okada et al. | |
| /JM/ | 12 | 6848029 | B2 | 2005-01-25 | Coldewey | |
| /JM/ | 13 | 5822790 | | 1998-10-13 | Mehrotra | |

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| | 1 | | | | | |

If you wish to add additional U.S. Published Application citation information please click the Add button

FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| | | | |
|--------------------|---------|---|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T ⁵ |
| /JM/ | 1 | "Method for the dynamic prediction of nonsequential memory accesses", September 25, 2002, pp. 1-4, ip.com IPCOM000009888D | <input type="checkbox"/> |
| /JM/ | 2 | "Cache Miss Director - A Means of Prefetching Cache Missed Lines", August 1, 1982, IBM Technical Disclosure Bulletin, Vol. 25, Issue 3A, pp.1286 | <input type="checkbox"/> |

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
|--------------------|------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| U.S. PATENTS | | | | | | Remove |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 5657253 | | 1997-08-12 | Dreyer et al. | |
| /JM/ | 2 | 5991708 | | 1999-11-23 | Levine et al. | |
| /JM/ | 3 | 5564015 | | 1996-10-08 | Bunnell | |
| /JM/ | 4 | 5450349 | | 1995-09-12 | Brown et al. | |
| /JM/ | 5 | 5987598 | | 1999-11-16 | Levine et al. | |
| /JM/ | 6 | 6009514 | | 1999-12-18 | Henzinger et al. | |
| /JM/ | 7 | 6112317 | | 2000-08-29 | Berc et al. | |
| /JM/ | 8 | 5896538 | | 1999-04-20 | Blandy et al. | |

| | | | | | |
|--|--|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | | 10675783 | |
| | | Filing Date | | 2003-09-30 | |
| | | First Named Inventor | | Levine et al. | |
| | | Art Unit | | 2182 | |
| | | Examiner Name | | Unknown | |
| | | Attorney Docket Number | | AUS920030486US1 | |

| | | | | | | |
|------|----|---------|----|------------|----------------|--|
| /JM/ | 9 | 5355487 | | 1994-10-11 | Keller et al. | |
| /JM/ | 10 | 6948032 | B2 | 2005-09-20 | Kadambi et al. | |

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| | 1 | | | | | |

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | T5 |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

| | | | | | | | |
|--------------------|---------|---|--|--|--|--|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | | | | | T5 |
| /JM/ | 1 | "CPU Cache", Wikipedia, pp. 1-14 retrieved 11/1/06 http://en.wikipedia.org/wiki/CPU_cache | | | | | <input type="checkbox"/> |
| /JM/ | 2 | AMMONS et al., "Exploiting Hardware Performance Counters with Flow and Context Sensitive Profiling", 1997, ACM, pp. 85-96. | | | | | <input type="checkbox"/> |

| | | |
|--|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
|--------------------|------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| U.S. PATENTS | | | | | | <input type="button" value="Remove"/> |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 6105129 | | 2000-08-15 | Meier et al. | |
| /JM/ | 2 | 6928521 | B1 | 2005-08-09 | Burton et al. | |
| /JM/ | 3 | 6598153 | B1 | 2003-07-22 | Flachs et al. | |
| /JM/ | 4 | 5875294 | | 1999-02-23 | Roth et al. | |
| /JM/ | 5 | 6073109 | | 2000-06-06 | Flores et al. | |
| /JM/ | 6 | 6871298 | B1 | 2005-03-22 | Cavanaugh et al. | |
| /JM/ | 7 | 5555432 | | 1996-09-10 | Hinton et al. | |
| /JM/ | 8 | 6145077 | | 2000-11-07 | Sidwell et al. | |

| | | | | | |
|--|--|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | | 10675783 | |
| | | Filing Date | | 2003-09-30 | |
| | | First Named Inventor | | Levine et al. | |
| | | Art Unit | | 2182 | |
| | | Examiner Name | | Unknown | |
| | | Attorney Docket Number | | AUS920030486US1 | |

| | | | | | | |
|------|----|---------|----|------------|----------------|--|
| /JM/ | 9 | 6865666 | B2 | 2005-03-08 | Yoshida et al. | |
| /JM/ | 10 | 5590352 | | 1996-12-31 | Zuraski et al. | |
| /JM/ | 11 | 6199204 | B1 | 2001-03-06 | Donohue | |
| /JM/ | 12 | 6202207 | B1 | 2001-03-13 | Donohue | |

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| /JM/ | 1 | 20050257092 | A1 | 2005-11-17 | Alexander et al. | |
| /JM/ | 2 | 20050177822 | | 2005-08-22 | Kuch et al. | |
| /JM/ | 3 | 20030041096 | A1 | 2003-02-27 | Johnson | |

If you wish to add additional U.S. Published Application citation information please click the Add button

FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|----------------|
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|----------------|

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unknown |
| | Attorney Docket Number | AUS920030486US1 |

| | | | | | | | | |
|---|--|--|--|--|--|--|--|--------------------------|
| 1 | | | | | | | | <input type="checkbox"/> |
|---|--|--|--|--|--|--|--|--------------------------|

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| If you wish to add additional Foreign Patent Document citation information please click the Add button <input type="button" value="Add"/> | | | | | | | |
| NON-PATENT LITERATURE DOCUMENTS <input type="button" value="Remove"/> | | | | | | | |

| | | | |
|--------------------|---------|---|---|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | <input type="checkbox"/> T ⁵ |
| | 1 | | <input type="checkbox"/> |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| If you wish to add additional non-patent literature document citation information please click the Add button <input type="button" value="Add"/> | | | | | | | |
| EXAMINER SIGNATURE | | | | | | | |

| | | | |
|--------------------|------------------|-----------------|------------|
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
|--------------------|------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

| | | |
|---|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unassigned |
| | Attorney Docket Number | AUS920030486US1 |

| U.S. PATENTS | | | | | | Remove |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /JM/ | 1 | 6542985 | | 2003-04-01 | Johnson et al. | |
| /JM/ | 2 | 4316245 | | 1982-02-16 | Luu et al. | |
| /JM/ | 3 | 7181723 | | 2007-02-20 | Luk et al. | |
| /JM/ | 4 | 6961925 | | 2005-11-01 | Callahan, II et al. | |
| /JM/ | 5 | 5950003 | | 1999-09-30 | Kaneshiro et al. | |
| /JM/ | 6 | 5212794 | | 1993-05-18 | Pettis et al. | |
| /JM/ | 7 | 5659679 | | 1997-08-19 | Alpert et al. | |
| /JM/ | 8 | 6006033 | | 1999-12-21 | Heisch | |

| | | | | |
|--|--|------------------------|--|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | | 10675783 |
| | | Filing Date | | 2003-09-30 |
| | | First Named Inventor | | Levine et al. |
| | | Art Unit | | 2182 |
| | | Examiner Name | | Unassigned |
| | | Attorney Docket Number | | AUS920030486US1 |

| | | | | | | |
|------|----|---------|----|------------|------------------|--|
| /JM/ | 9 | 6119075 | | 2000-09-12 | Dean et al. | |
| /JM/ | 10 | 6189141 | B1 | 2001-02-13 | Benitez et al. | |
| /JM/ | 11 | 6237141 | B1 | 2001-05-22 | Holzie et al. | |
| /JM/ | 12 | 6351844 | B1 | 2002-02-26 | Bala | |
| /JM/ | 13 | 6505292 | B1 | 2003-01-07 | Witt | |
| /JM/ | 14 | 6631514 | B1 | 2003-10-07 | Le | |
| /JM/ | 15 | 5794028 | | 1998-08-11 | Tran | |
| /JM/ | 16 | 5950009 | | 1999-09-07 | Bortnikov et al. | |
| /JM/ | 17 | 5950003 | | 1999-09-07 | Kaneshiro et al. | |
| /JM/ | 18 | 5581778 | | 1996-12-03 | Chin et al. | |
| /JM/ | 19 | 5752062 | | 1998-05-12 | Gover et al. | |

| | | | | | |
|---|--|------------------------|--|-----------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | | Application Number | | 10675783 | |
| | | Filing Date | | 2003-09-30 | |
| | | First Named Inventor | | Levine et al. | |
| | | Art Unit | | 2182 | |
| | | Examiner Name | | Unassigned | |
| | | Attorney Docket Number | | AUS920030486US1 | |

| | | | | | | |
|------|----|---------|----|------------|-----------------|--|
| /JM/ | 20 | 6446029 | B1 | 2002-09-03 | Davidson et al. | |
| /JM/ | 21 | 5970439 | | 1999-10-19 | Levine et al. | |

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| /JM/ | 1 | 20040194076 | A1 | 2004-09-01 | Comp et al. | |
| /JM/ | 2 | 20020073406 | A1 | 2002-06-13 | Gove | |
| /JM/ | 3 | 20030014741 | A1 | 2003-01-16 | Megiddo et al. | |
| /JM/ | 4 | 20020157086 | A1 | 2002-10-24 | Lewis et al. | |
| /JM/ | 5 | 20030040955 | A1 | 2003-02-27 | Anaya et al. | |

If you wish to add additional U.S. Published Application citation information please click the Add button

FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|----------------|
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|----------------|

| | | | |
|--|--|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | | Application Number | 10675783 |
| | | Filing Date | 2003-09-30 |
| | | First Named Inventor | Levine et al. |
| | | Art Unit | 2182 |
| | | Examiner Name | Unassigned |
| | | Attorney Docket Number | AUS920030486US1 |

| | | | | | | | | |
|---|---------|---|--|--|--|--|--------------------------|--------------------------|
| | 1 | | | | | | | <input type="checkbox"/> |
| If you wish to add additional Foreign Patent Document citation information please click the Add button <input type="button" value="Add"/> | | | | | | | | |
| NON-PATENT LITERATURE DOCUMENTS <input type="button" value="Remove"/> | | | | | | | | |
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | | | | | T5 | |
| /JM/ | 1 | RAMIREZ et al., "The Effect of Code Reordering on Branch Prediction", Proceedings of the International Conference on Parallel Architectures and Compilation Techniques, October 2000, pp. 189-198. | | | | | <input type="checkbox"/> | |
| /JM/ | 2 | YANG et al., "Improving Performance by Branch Reordering", Proceedings of the ACM SIGPLAN 1998 Conference on Programming Language Design and Implementation, Montreal Canada, 1008, pp. 130-141. | | | | | <input type="checkbox"/> | |
| /JM/ | 3 | CONTE et al., "Accurate and Practical Profile-Driven Compilation Using the Profile Buffer", Proceedings of the 29th Annual ACM/IEEE International Symposium on Microarchitecture, Paris, France, 1996, pp. 36-45. | | | | | <input type="checkbox"/> | |
| /JM/ | 4 | CONTE et al., "Using Branch Handling Hardware to Support Profile-Driven Optimization", Proceedings of the 27th Annual International Symposium on Microarchitecture, San Jose CA, 1994, pp. 12-21. | | | | | <input type="checkbox"/> | |
| /JM/ | 5 | FISHER, "Trace Scheduling: A Technique for Global Microcode Compaction", IEEE Transactions on Computers, Vol. C30, No. 7, July 1981, pp. 478-490. | | | | | <input type="checkbox"/> | |
| /JM/ | 6 | CHANG et al., "Using Profile Information to Assist Classic Code Optimizations", Software Pract. Exper. 21, December 1991, pp. 1301-1321. | | | | | <input type="checkbox"/> | |
| /JM/ | 7 | SCHMIDT et al., "Profile-Directed Restructuring of Operating System Code", IBM Systems Journal, 1998, Vol. 37, No. 2, pp. 270-297. | | | | | <input type="checkbox"/> | |
| /JM/ | 8 | AHO et al., "Compilers: Principles, Techniques, and Tools", Addison-Wesley, 1988, pp. 488-497. | | | | | <input type="checkbox"/> | |

| | | |
|--|------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) | Application Number | 10675783 |
| | Filing Date | 2003-09-30 |
| | First Named Inventor | Levine et al. |
| | Art Unit | 2182 |
| | Examiner Name | Unassigned |
| | Attorney Docket Number | AUS920030486US1 |

| | | | |
|------|---|---|--------------------------|
| /JM/ | 9 | INTEL, "Intel IA-64 Architecture Software Developer's Manual", Revision 1.1, Vol. 4, No. 245320.002, July 2001. | <input type="checkbox"/> |
|------|---|---|--------------------------|

| | | | |
|---|------------------|-----------------|------------------------------------|
| If you wish to add additional non-patent literature document citation information please click the Add button | | | <input type="button" value="Add"/> |
| EXAMINER SIGNATURE | | | |
| Examiner Signature | /Jason Mitchell/ | Date Considered | 05/09/2007 |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | |
| ¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached. | | | |

| Form PTO-1449 LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i> | | | | ATTORNEY DOCKET NO. AUS920030486US1 | SERIAL NO. 10/675,783 |
|---|----|--------------------------------------|----------------------------------|--|---------------------------------|
| | | | | APPLICANT Levine et al. | |
| | | | | FILING DATE September 30, 2003 | GROUP ART UNIT 2182 |
| RELATED PATENT APPLICATIONS | | | | | |
| EXAMINER INITIAL | | APPLICATION NO./ ATTY. DOCKET NO. | APPLICANT | TITLE | |
| /JM/ | AA | 10/675,777 / AUS920030477US1 | DeWitt, Jr. et al. | Method and Apparatus for Counting Instruction Execution and Data Accesses | |
| /JM/ | AB | 10/674,604 / AUS920030478US1 | DeWitt, Jr. et al. | Method and Apparatus for Selectively Counting Instructions and Data Accesses | |
| /JM/ | AC | 10/675,831 / AUS920030479US1 | DeWitt, Jr. et al. | Method and Apparatus for Generating Interrupts Upon Execution of Marked Instructions and Upon Access to Marked Memory Locations | |
| /JM/ | AD | 10/675,778 / AUS920030480US1 | DeWitt, Jr. et al. | Method and Apparatus for Counting Data Accesses and Instruction Executions that Exceed a Threshold | |
| /JM/ | AE | 10/675,776 / AUS920030481US1 | DeWitt, Jr. et al. | Method and Apparatus for Counting Execution of Specific Instructions and Accesses to Specific Data Locations | |
| /JM/ | AF | 10/675,751 / AUS920030482US1 | Levine et al. | Method and Apparatus for Debug Support for Individual Instructions and Memory Locations | |
| /JM/ | AG | 10/675,721 / AUS920030483US1 | Levine et al. | Method and Apparatus to Autonomically Select Instructions for Selective Counting | |
| /JM/ | AH | 10/674,642 / AUS920030484US1 | Levine et al. | Method and Apparatus to Autonomically Count Instruction Execution for Applications | |
| /JM/ | AI | 10/674,606 / AUS920030485US1 | Levine et al. | Method and Apparatus to Autonomically Take an Exception on Specified Instructions | |
| /JM/ | AJ | 10/675,872 / AUS920030487US1 | DeWitt, Jr. et al. | Method and Apparatus for Counting Instruction and Memory Location Ranges | |
| DATE CONSIDERED 05/09/2007 | | | EXAMINER /Jason Mitchell/ | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | |

| Form PTO-1449 | | | ATTORNEY DOCKET NO. AUS920030486US1 | SERIAL NO. Not Assigned | |
|--|--------------|------------------|---|------------------------------------|---------------|
| LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i> | | | APPLICANT Levine et al. | | |
| | | | FILING DATE | GROUP ART UNIT Not Assigned | |
| U.S. PATENT DOCUMENTS | | | | | |
| EXAMINER INITIAL | DOCUMENT NO. | PUBLICATION DATE | INVENTOR NAME | CLASS/ SUBCLASS | FILING DATE |
| /JM/ AA | 5,103,394 | Apr. 7, 1992 | Blasciak | 395/575 | Dec. 21, 1989 |
| /JM/ AB | 6,330,662 B1 | Dec. 11, 2001 | Patel et al. | 712/236 | Feb. 23, 1999 |
| /JM/ AC | 6,480,938 B2 | Nov. 12, 2002 | Vondran, Jr. | 711/125 | Dec. 15, 2000 |
| /JM/ AD | 6,430,741 B1 | Aug. 6, 2002 | Mattson, Jr. et al. | 717/154 | Feb. 26, 1999 |
| /JM/ AE | 6,189,141 B1 | Feb. 13, 2001 | Benitez et al. | 717/4 | May 4, 1998 |
| /JM/ AF | 5,930,508 | Jul. 27, 1999 | Faraboschi et al. | 395/704 | Jun. 9, 1997 |
| /JM/ AG | 6,351,844 B1 | Feb. 26, 2002 | Bala | 717/4 | Nov. 5, 1998 |
| /JM/ AH | 6,324,689 B1 | Nov. 27, 2001 | Lowney et al. | 717/9 | Sep. 30, 1998 |
| /JM/ AI | 6,442,585 B1 | Aug. 27, 2002 | Dean et al. | 709/108 | Nov. 26, 1997 |
| /JM/ AJ | 5,774,724 | Jun. 30, 1998 | Heisch | 395/704 | Nov. 20, 1995 |
| /JM/ AK | 5,987,250 | Nov. 16, 1999 | Subrahmanyam | 395/704 | Aug. 21, 1997 |
| /JM/ AL | 6,192,513 B1 | Feb. 20, 2001 | Subrahmanyam | 717/5 | Nov. 2, 1998 |
| /JM/ AM | 5,691,920 | Nov. 25, 1997 | Levine et al. | 364/551.01 | Oct. 2, 1995 |
| /JM/ AN | 6,223,338 B1 | Apr. 24, 2001 | Smolders | 717/4 | Sep. 30, 1998 |
| /JM/ AO | 6,101,524 | Aug. 8, 2000 | Choi et al. | 709/102 | Oct. 23, 1997 |
| /JM/ AP | 6,256,775 B1 | Jul. 3, 2001 | Flynn | 717/4 | Dec. 11, 1997 |
| /JM/ AQ | 6,446,029 B1 | Sep. 3, 2002 | Davidson et al. | 702/186 | Jun. 30, 1999 |
| /JM/ AR | 6,134,676 | Oct. 17, 2000 | VanHuben et al. | 714/39 | Apr. 30, 1998 |
| /JM/ AS | 5,937,437 | Aug. 10, 1999 | Roth et al. | 711/202 | Oct. 28, 1996 |
| /JM/ AT | 6,243,804 B1 | Jun. 5, 2001 | Cheng | 712/228 | Jul. 22, 1998 |
| /JM/ AU | 4,291,371 | Sep. 22, 1981 | Holtey | 364/200 | Jan. 2, 1979 |
| /JM/ AV | 5,938,778 | Aug. 17, 1999 | John, Jr. et al. | 714/45 | Nov. 10, 1997 |
| /JM/ AW | 6,286,132 B1 | Sep. 4, 2001 | Tanaka et al. | 717/4 | Jan. 7, 1999 |
| /JM/ AX | 6,206,584 B1 | Mar. 27, 2001 | Hastings | 395/183.11 | May 31, 1995 |
| /JM/ AY | 6,374,364 B1 | Apr. 16, 2002 | McElroy et al. | 714/10 | Jan. 19, 1999 |
| /JM/ AZ | 6,070,009 | May 30, 2000 | Dean et al. | 395/704 | Nov. 26, 1997 |
| /JM/ BA | 5,966,537 | Oct. 12, 1999 | Ravichandran | 395/709 | May 28, 1997 |
| DATE CONSIDERED 05/09/2007 | | | EXAMINER /Jason Mitchell/ | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | |

| Form PTO-1449 | | | | ATTORNEY DOCKET NO. AUS920030486US1 | SERIAL NO. Not Assigned | |
|--|-----------------------------------|--|--|--|-----------------------------|--------------------|
| LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT Levine et al. | | |
| | | | | FILING DATE | GROUP ART UNIT Not Assigned | |
| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NO. | PUBLICATION DATE | INVENTOR NAME | | CLASS/ SUBCLASS | FILING DATE |
| /JM/ | BB | 2002/0129309 | Floyd et al. | | 714/724 | Dec. 18, 2000 |
| /JM/ | BC | 2001/0032305 | Barry | | 712/34 | Feb. 23, 2001 |
| /JM/ | BD | 2002/0199179 | Lavery et al. | | 717/158 | Jun. 21, 2001 |
| /JM/ | BE | 2002/0124237 | Sprunt et al. | | 717/127 | Dec. 29, 2000 |
| /JM/ | BF | 2002/0147965 | Swaine et al. | | 717/124 | Feb. 1, 2001 |
| /JM/ | BG | 2002/0019976 | Patel et al. | | 717/137 | May 25, 2001 |
| FOREIGN PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | DOCUMENT NO. | PUBLICATION DATE | COUNTRY | | CLASS/ SUBCLASS | TRANSLATION YES NO |
| /JM/ | BH | JP2000029731 | Japan | | G06F 9/38 | X |
| /JM/ | BI | JP2000347863 | Japan | | G06F 9/38 | X |
| OTHER PRIOR ART (including author, title, date, pertinent page, etc.) | | | | | | |
| /JM/ | BJ | Kikuchi, "Parallelization Assist System", Joho Shori, Vol. 34, No. 9, Sept. 1993, pp. 1158-1169. | | | | |
| /JM/ | BK | Cohen et al., "Hardware-Assisted Characterization of NAS Benchmarks", Cluster Computing, Vol. 4, No. 3, July 2001, pp. 189-196. | | | | |
| /JM/ | BL | Talla et al., "Evaluating Signal Processing and Multimedia Applications on SIMD, VLIW and Super Scalar Architectures", International Conference on Computer Design, Austin, Sept. 17-20, 2000, pp. 163-172. | | | | |
| /JM/ | BM | Iwasawa et al., "Parallelization Method of Fortran DO Loops by Parallelizing Assist System", Transactions of Information Processings Society of Japan, Vol. 36, No. 8, Aug. 1995, pp. 1995-2006. | | | | |
| /JM/ | BN | Talla et al., "Execution Characteristics of Multimedia Applications on a Pentium II Processor", IEEE International Performance, Computing, and Communications Conference, 19 th , Phoenix, Feb. 20-22, 2000, pp. 516-524. | | | | |
| /JM/ | BO | IBM Research Disclosure Bulletin 444188, "Enable Debuggers as an Objective Performance Measurement Tool for Software Development Cost Reduction", April 2001, pp. 686-688. | | | | |
| RELATED PATENT APPLICATIONS | | | | | | |
| EXAMINER INITIAL | APPLICATION NO./ ATTY. DOCKET NO. | APPLICANT | TITLE | | FILING DATE | |
| /JM/ | BP 09/435,069 AT9-99-491 | Davidson et al. | Method and Apparatus for Instruction Sampling for Performance Monitoring and Debug | | Nov. 4, 1999 | |
| /JM/ | BQ 08/538,071 AUT919950055US1 | Gover et al. | Method and System for Selecting and Distinguishing an Event Sequence using an Effective Address in a Processing System | | Oct. 2, 1995 | |
| DATE CONSIDERED 05/09/2007 | | | EXAMINER | /Jason Mitchell/ | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | |